

Claims

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1. Sterilisable composite film containing a barrier layer that is impermeable to water vapour and gases comprising a metal foil and on both sides of the barrier layer at least one functional layer,

characterised in that,

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the composite film exhibits a layer structure containing one on top of the other:

a) a first functional layer containing a plastic film from the polyester or polyolefin series or an extrusion layer of polyolefins or one or more lacquer layers, or print and lacquer layers, or print layers and

b) a metal foil and

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c) a second functional layer in the form of a plastic film of the co-extruded polyamide/polypropylene film type.

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2. Sterilisable composite film according to claim 1, characterised in that the composite film exhibits a layer type structure, containing in sequence:

a) a plastic film from the polyester series and

b) a metal foil and

c) a plastic film of the co-extruded polyamide/polypropylene film type.

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3. Sterilisable composite film according to claim 1, characterised in that the polyester film of layer a) is monoaxially or biaxially stretched.

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4. Sterilisable composite film according to claim 1, characterised in that the polyester film of layer a) is of the PETP type.

5. Sterilisable composite film according to claim 1, characterised in that the composite film exhibits a layer type structure containing in sequence:

a) one or more lacquer layers, or print and lacquer layers, or print layers and

b) a metal foil and

c) a second plastic film of the co-extruded polyamide/polypropylene film type.

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6. Sterilisable composite film according to claim 1, characterised in that the polyester film of layer a) has a thickness of 8 to 25  $\mu\text{m}$ , preferably from 10 to 18  $\mu\text{m}$ , in particular 12  $\mu\text{m}$ , that the metal foil has a thickness of 5 to 100  $\mu\text{m}$ , preferably from 7

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to 25  $\mu\text{m}$ , in particular from 7 to 15  $\mu\text{m}$ , and that the co-extruded polyamide/polypropylene film has a thickness of 50 to 150  $\mu\text{m}$ , preferably from 60 to 90  $\mu\text{m}$ , in particular from 70 to 80  $\mu\text{m}$ .

- 5 7. Sterilisable composite film according to claim 1, characterised in that the metal foil is an aluminium foil, usefully pure aluminium or an aluminium alloy of the type AlMn, AlFeMn, AlFeSi or AlFeSiMn, preferably having a purity of 97.5% and higher, in particular a purity of 98.5% and higher.
- 10 8. Sterilisable composite film according to claim 1, characterised in that the metal foil is pre-treated with a primer on one or both sides.
9. Sterilisable composite film according to claim 1, characterised in that a bonding agent and/or laminate adhesive is provided between the individual layers.
- 15 10. Pouch type of packaging made from a sterilisable composite film according to claim 1.

ADD A1  
ADD B1

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